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03500.015727.

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Ap	plication of:)	
	•	:	Examiner: D. H. Vu
TAKEC	TSUKAMOTO)	
		:	Group Art Unit: 2821
Applica	tion No.: 09/941,780)	-
• •		:	
Filed: A	ugust 30, 2001)	
	_	:	
For:	ELECTRON-EMITTING DEVICE,)	
	ELECTRON-EMITTING	:	
	APPARATUS, IMAGE DISPLAY)	
	APPARATUS, AND LIGHT-	:	
	EMITTING APPARATUS)	December 19, 2003

Mail Stop Commissioner for Patents P.O. Box 1450 Arlington, VA 22313-1450

REQUEST FOR CONSIDERATION OF PREVIOUSLY CITED ART

Sir:

Applicant has received a Notice of Allowance in the above-identified application. The Examiner is sincerely thanked for allowing the application. However, Applicant has not yet received confirmation that the Information Disclosure Statements filed on July 30, 2003, September 8, 2003, and September 17, 2003, have been considered in this application. A copy of each of those Information Disclosure Statements and a copy of each accompanying Form PTO-1449 are enclosed, as is a copy of the respective return receipt postcards stamped to confirm receipt of those papers by the Patent and Trademark Office.

2821 B Applicant respectfully requests that the Examiner consider and make of

record the art cited in the mentioned Information Disclosure Statements, and issue initialed

copies of the Forms PTO-1449 as confirmation thereof.

If the Examiner requires additional copies of the art cited in the Information

Disclosure Statements, the Examiner is respectfully requested to telephone the

undersigned.

If this Request is not promptly granted, it is requested that this paper be

treated as a Petition to the Commissioner under 37 C.F.R. § 1.181(a)(3) for exercise of his

supervisory authority, and that the Examiner forward this paper to the appropriate official

for decision as such a petition. While no petition fee is thought to be needed, any such fee

that is deemed to be due should be charged to Deposit Account No. 06-1205.

Applicant's undersigned attorney may be reached in our New York office by

telephone at (212) 218-2100. All correspondence should continue to be directed to our

below listed address.

Respectfully submitted,

FITZPATRICK, CELLA, HARPER & SCINTO

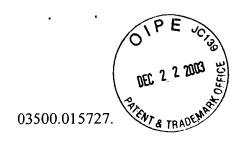
30 Rockefeller Plaza

New York, New York 10112-3801

Facsimile: (212) 218-2200

NY_MAIN 396758v1

- 2 -



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
ГАКЕО TSUKAMOTO	: Examiner: D. H. Vu) : Group Art Unit: 2821
Application No.: 09/941,780)
Filed: August 30, 2001)
For: ELECTRON-EMITTING DEVICE ELECTRON-EMITTING APPARATUS, IMAGE DISPLAY APPARATUS, AND LIGHT- EMITTING APPARATUS	; ; ;) ; September 16, 2003

Mail Stop Commissioner for Patents P.O. Box 1450 Arlington, VA 22313-1450

FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Supplemental to the Information Disclosure Statement filed on September 8, 2003, and in compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the document listed on the enclosed Form PTO-1449. A copy of the listed document is also enclosed. This document 10-149760 was listed in a communication (dated June 28, 2003) (copy enclosed with a Japanese translation thereof) issued by the Korean Patent Office in a counterpart foreign application. U.S. Patent No. 5,872,422, listed in the communication, was cited in the Information Disclosure Statement dated July 29, 2003, and thus is not listed on the enclosed Form PTO-1449.

For the concise statement of relevance of the non-English document listed on the Form PTO-1449, the Examiner is respectfully referred to the English abstract attached thereto.

Also enclosed is a copy of a communication (dated July 18, 2003) issued by the Chinese Patent Office in a counterpart foreign application, and a copy of an English translation thereof, entitled Notification of the First Office Action. U.S. Patent 4,728,851, which is cited in the Chinese communication, already is of record in the present application, and therefore is not listed on the Form PTO-1449.

STATEMENT UNDER 37 C.F.R. § 1.97(e)

Document 10-149760, cited in this information disclosure statement was first cited in any communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing date of this Statement.

Accordingly, it is believed that no additional fee is due in connection with this Fifth Supplemental Information Disclosure Statement. However, if any additional is deemed required by the United States Patent and Trademark Office in connection with this Fifth Supplemental Information Disclosure Statement, authorization to charge any such fee to Deposit Account 06-1205 is hereby given.

CONCLUSION

It is respectfully requested that the above information be considered by the Examiner and that a copy of the enclosed Form PTO-1449 be returned indicating that such information has been considered.

Applicants' undersigned attorney may be reached in our New York office by telephone at (212) 218-2100. All correspondence should continue to be directed to our address given below.

- 3 -

Respectfully submitted,

Attorney for Applicants Registration No.

FITZPATRICK, CELLA, HARPER & SCINTO 30 Rockefeller Plaza New York, New York 10112-3801 Facsimile: (212) 218-2200

FORM PTO 1449 (modified)				ATTY DOCKET NO.	APPLICATION NO.			
U.S. DEPARTMENT OF COMMERCE				03500.015727. 09/941,780			ou 	
		AND TRADEMARK OFFIC		APPLICANT	<u></u>			
LIST OF REFERENCES CITED BY APPLICANT (S)				TA	KEO TSUKA	MOTO		
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		CA)	ENT & TRADE	U.S. PATENT DOCUMENTS				
*EXAMINER		DOCUMENT					FILING DATE	
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	ļ	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES/NO/ OR ABSTRACT	
-	JP	10-149760	6/98	JAPAN	но1Ј	1/30	ABSTRACT	
					.N-25*			
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)								
EXAMINER				DATE CONSIDERED				

*EXAMINER:	Initial if reference considered,	whether or not citation is i	n conformance with MPEP	609; Draw line through	h citation if not in	conformance and not	considered
nclude copy o	of this form with next commun	ication to applicant.					

SHEEL I OF I	Sheet	1	of	1
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,,,,,,,	Commissioner for Patents	Date 9 17, 03
•		Mo. Day Yr.
	P.O. Box 1450 Alexandria, VA 22313-1450	Atty. Docket 0/5727.
		Application No./941,780
	Sir:	
	Kindly acknowledge receipt of the accompanying:	IPE VC
	Response to Official Action.	√ O % \ \
FC	Check for \$ (claims fee)	ואי צומה יי
FCHS-D-00	☐ Petition under 37 CFR 1.136 and Check for \$	SEP 1 1 Mas E
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	by placing your receiving date stamp hereon and returning to	deliverer.
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)	
• •	:	Examiner: D. H. Vu
TAKEO TSUKAMOTO)	
	:	Group Art Unit: 2821
Application No.: 09/941,780)	
	:	
Filed: August 30, 2001)	
	:	
For: ELECTRON-EMITTING DEVICE,)	
ELECTRON-EMITTING APPARATUS,	:	
IMAGE DISPLAY APPARATUS, AND)	
LIGHT-FMITTING APPARATUS		September 5, 2003

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

FOURTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed on the enclosed Form PTO-1449. Copies of the listed documents are also enclosed, together with a copy of the February 11, 2003, European Search Report citing some of them.

For a concise explanation of relevance for various non-English documents listed on the enclosed Form PTO-1449, the Examiner is directed to the corresponding English-language abstracts, English translations, and/or English counterparts, where available, as

indicated in association with the relevant non-English documents on the Form PTO-1449.

U.S. Patent documents 4,728,851 and 5,982,091, listed in the European Search Report, have already been submitted to the Examiner in a previous Information Disclosure Statement for this case and are not listed on the PTO-1449. The Examiner is also respectfully referred to U.S. Patent document 2000/0009637 listed as the U.S. counterpart of EP 1 122 344 A2.

The Examiner's attention is also directed to the following U.S. Applications:

APPLICATION NO.	FILING DATE	GROUP ART UNIT
09/506,289	02/18/00	2818
09/666,605	09/20/00	2811
09/955,137	9/19/01	2879
10/106,484	3/27/02	2879
10/234,213	9/5/02	2879
10/235,809	9/6/02	2878 .

A copy of each cited application is enclosed.

It is respectfully requested that the above information be considered by the Examiner and that a copy of the enclosed Form PTO-1449 be returned indicating that such information has been considered.

A check for \$180.00 in payment of the required fee is enclosed. Please charge any deficiency in this payment, or credit any overpayment, to Deposit Account 06-1205.

Applicant's undersigned attorney may be reached in our New York office by telephone at (212) 218-2100. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

Attorney for Applicant

Registration No. 42,476

FITZPATRICK, CELLA, HARPER & SCINTO 30 Rockefeller Plaza
New York, New York 10112-3801
Facsimile: (212) 218-2200

NY MAIN_#368883v1

FORM PTO 1449 (modified)			ATTY DOCKET NO. APPLICATION NO. 03500.015727. 09/9			0	
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OF RICE		APPLICANT Takeo Tsukamoto					
	REFERENCES CITED BY APPLICA Use several sheets if necessary)	7 7003 20 110 NT (S)	FILING DATE	Isukamoto	GROUP		
Date Submitted to	PTO:[DATE]		August 30, 2001		1	821	
<u> </u>	ATENT	TRADEMA	U.S. PATENT DOCUMENTS		T		
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	6,472,814 B1	10/02	Yamanobe et al.	313	495	11/13/98	
	5,847,495	12/98	Yamanobe et al.	313	310		
	5,066,883	11/91	Yoshioka et al.	313	309		
	6,455,021 B1	09/02	Saito	423	447.3	07/20/99	
	6,471,936 B1	10/02	Chen et al.	423	658.2	03/02/00	
	6,283,812 B1	09/01	Jin et al.	445	24	01/25/99	
	4,816,289	03/89	Komatsu et al	423	447.3		
	5,443,859	08/95	Nagata	427	122		
	5,618,875	04/97	Baker et al.	524	495		
	5,690,997	11/97	Grow	427	249		
	6,129,602	10/00	Yamanobe	445	24		
	6,228,904 B1	05/01	Yadav et al.	523	210		
	6,333,016 B1	12/01	Resasco et al.	423	447.3.	9/3/99	
	6,413,487 B1	07/02	Resasco et al.	423	447.3	6/2/00	
	6,445,006 B1	09/02	Brandes et al.	257	76	7/27/99	
	5,981,305	11/99	Hattori	438	20		
	6,290,564 B1	9/01	Talin et al.	445	50	9/30/99	
	5,458,784	10/95	Baker et al.	210	674	5/3/00	
	6,331,690 B1	12/01	Yudasaka et al.	219	121.6		
	5,965,267	10/99	Nolan et al.	428	408		

DATE CONSIDERED

EXAMINER

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO 1449 (modified)			ATTY DOCKET NO. 03500.015727.	APPLICA	ATION NO. 09/941,7	780			
LIST	U.S. DEPARTMENT OF COMM PATENT AND TRADEMARK OF REFERENCES CITED BY A	OFFICE PE	vc _{j@}	APPLICANT Takeo Ts					
	(Use several sheets if neces	OEC 227	e eng	N		GROUP 28	821		
		P. A.	, RET	U.S. PATENT DOCUMENTS					
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE DATE	DEM	NAME	CLASS	S SUBCLASS	FILING DATE IF APPROPRIATE		
	6,390,612 B1	05/02		Kotaki et al.	347	85			
	5,872,541	02/99	<u> </u>	Yoshioka et al.	345	74			
	5,543,684	08/96		Kumar et al.	313	495			
	5,551,903	9/96	<u> </u>	Kumar et al.	445	24			
	4,900,483	2/90		Witzke et al.	264	29.2			
	5,500,200	3/96		Mandeville et al.	423	447.3			
	5,726,524	3/98		Debe	313	309			
	2002/0009637 A1	1/24/02		Murakami et al	429	213	2/5/01		
	2002/0047562 A1	04/25/02		Kitamura et al.	315	169.3	05/29/01		
	5,770,918	6/98	<u> </u>	Kawate et al.	313	495			
	5,185,554	2/93	ļ	Nomura et al.	313	495			
	2002/0146958 A1	10/02	<u> </u>	Ono et al.	445	24			
	2003/0048056 A1	3/03	<u> </u>	Kitamura et al.	313	311			
			<u> </u>						
EXAMINER				DATE CONSIDERED					

Sheet 2 of 5

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO 144	9 (modified)		AT	TY DOCKET NO.	APPLICA	TION NO.		
	U.S. DEPARTMENT OF COM	MERCE PE		03500.015727.		09/941,7	'80	
	PATERI AND INADEMAIN	%O" "	AP	APPLICANT Takeo Tsukamoto				
LIST	OF REFERENCES CITED BY A (Use several sheets if nece	75 1 210/11/1 (0)	FIL	ING DATE		GROUP		
		\ _	~7I	August 30, 2001		28	321	
		PATRADENS	<u> </u>					
			FOREIG	N PATENT DOCUMENTS		T	TRANSI ATION	
	DOCUMENT NUMBER	DATE		COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT	
	11-194134	07/99		Japan	G011	37/00	Abst., European Equivalent 0 913 508 A3	
	11-139815	05/99		Japan	C01E	31/02	Abst.	
	0 535 953 B1	01/96		ЕРО	H01、	1/30	English	
	1 122 344 A2	08/01		EPO	D01F	9/127	English	
	0 758 028 B1	09/11/02		EPO	D01	9/127	English	
	11-232997	08/27/99		Japan	H01、	J 1/30	European Counterpart 0 936 650	
	1 022 763 A1	7/00		EPO	H01、	9/02	English	
	2000-223005	8/00		Japan	H01、	1/304	Abst. & Counterpart U.S. Patent 6,283,812	
	0 836 217 A1	04/98		EPO	H01、	29/94	English	
	WO 99/58748	11/99		РСТ	D01I	9/127	English	
	CN 1181607A	5/98		China			English Counterparts 0 836 217 & 99/58748	
	1 102 299 A1	5/01		EPO	H01.	J 1/30	English	
	0 913 508 A3	5/99		EPO	D01I	9/127	English	
	1 096 533 A1	5/01		EPO	Н01、	9/02	English	
	WO 01/26130	4/01		PCT	H01.	9/02	English	
	GB 2 308 495 A	6/97		UK	H01.	J 1/20	English	
	1 120 877 A1	8/01		EPO	H020	5/06	English	
EXAMINER				DATE CONSIDERED				

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO 1449 (modified)			ATTY DOCKET NO. APPLICATION NO. 03500.015727. 09/941,780			80
	U.S. DEPARTMENT OF COM PATENT AND TRADEMARK F REFERENCES CITED BY	APPLICANT(S)	APPLICANT Takeo Tsul	kamoto		
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		TRADEMAR.				
			DREIGN PATENT DOCUMENTS			
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
	1-309242	12/89	Japan	H01J	37/06	Abst.
	11-162334	6/99	JAPAN	H01J	9/02	Abst.
	2000-57934	2/00	JAPAN	H01J	1/304	Abst.
	2000-86216	3/00	JAPAN	C01B	31/02	Abst.
	2000-90809	3/00	JAPAN	H01J	1/304	Abst.
	2001-288625 A	10/01	Japan	D01F	9/127	Abst. , Counterpart U.S. Patent 2002/00009637 & EP 1 122 344
	0 433 507 A1	6/91	EPO	D01F	9/127	English
	03-260119	11/91	Japan	D01F	9/127	Abst. & Counterpart U.S. Patent 4,900,483
	2001-52598	2/01	Japan	H01J	1/316	Abst.
	2000-95509	4/00	Japan	C01B	31/02	Abst.
	0 451 208 B1	3/00	EPO	D01F	9/12	English
	2000-208028	7/00	Japan	H01J	1/304	Abst.
	0 936 650 A1	8/01	EPO	H01J	3/02	English
	08-298068	11/96	Japan	H01J	1/30	Abst.
	2001-162600	6/19/01	Japan	B82B	1/00	Abst.

DATE CONSIDERED

EXAMINER

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO 1449 (modified)	ATTY DOCKET NO. 03500.015727.	APPLICATION NO. 09/941,780		
U.S. DEPARTMENT OF COMMERCE PE PATENT AND TRADEMARK OFFICE PE COLUMN (S)				
(Use several sheets if necessary) DEC 2 2 2003	FILING DATE August 30, 2001	GROUP 2821		
PRODUCE AND ALL OF THE PARTY OF				
~ / & TRAU>	OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)			
W. Zhu Et Al., <i>Electron Field En</i> Solid State Electronics, Vol. 45	nission From Nanostructured Dian , 2001, pp. 921-928	nond and Carbon Nanotubes,		
J.M. Bonard Et Al., Field Emission From Carbon Nanotubes: The First Five Years, Solid Stat Electronics, Vol. 45, 2001, pp. 893-914				
A.M. Rao et al., "In Situ-grown Carbon Nanotube Array of with Excellent Field Emission Characteristics," Applied Physics Letter, Vol. 76, No. 25, pp. 3813-3815 (2000).				
Cheol Jin Lee et al., "Carbon Nanofibers Grown on Sodalime Glass at 500 °C Using Thermal Chemical Vapor Deposition," Chemical Physics Letters 340, pp. 413-418 (2001).				
Sashiro Uemura et al., "Carbon ISSN 1083-1312, pp. 398-401.	Sashiro Uemura et al., "Carbon Nanotube FED with Graphite-Nano-Fiber Emitters," ISSN 1083-1312, pp. 398-401.			
Q. H. Wang et al., "A Nanotube-Based Field-Emission Flat Panel Display," Applied Physics Letters, Vol. 72, No. 22, June 1998, pp. 2912-2913				
EXAMINER	DATE CONSIDERED			

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



	Assistant Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 Date O7 08 03 03 07 03 07 03 07 03 07 07
FCHS-D-95	Kindly acknowledge receipt of the accompanying: Response to Official Action.

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Ap	plication of:)	
TAKEO	TSUKAMOTO	:	Examiner: D.H. Vu
Applicat	tion No.: 09/941,780	;	Group Art Unit: 2821
Filed: A	ugust 30, 2001)	
For:	ELECTRON-EMITTING DEVICE, ELECTRON-EMITTING APPARATUS, IMAGE DISPLAY APPARATUS, AND LIGHT- EMITTING APPARATUS) :) :)	July 29, 2003

MAIL STOP DD Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

THIRD SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed on the enclosed Form PTO-1449. Copies of the listed documents, as well as a copy of a European Search Report (EP 1 187 161 A2) issued in a counterpart foreign application, which cites the listed documents, are also enclosed. Additionally, Applicant encloses a check in the amount of \$180.00 for payment of the Information Disclosure Statement fee required under 37 C.F.R. § 1.97(c)(2).

Applicant notes that the following documents listed in the European Search Report were previously cited in the Information Disclosure Statements identified below.

Therefore, copies of these documents are not provided herewith.

<u>Document</u>	Filing Date of Information Disclosure Statement Citing Such Document
4,728,851	November 29, 2001
EP 0 535 953	December 26, 2002
EP 0 290 026	December 26, 2002
5,982,091	December 26, 2002
EP 1 122 344	January 14, 2003

Applicant also notes that document 2002/0009637 is the U.S. counterpart of EP 1 122 344 cited in the Information Disclosure Statement filed on January 14, 2003.

It is respectfully requested that the above information be considered by the Examiner and that a copy of the enclosed Form PTO-1449 be returned indicating that such information has been considered.

Applicant's undersigned attorney may be reached in our New York office by telephone at (212) 218-2100. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

FITZPATRICK, CELLA, HARPER & SCINTO 30 Rockefeller Plaza New York, New York 10112-3801 Facsimile: (212) 218-2200

FORM PTO 1449 (n	nodified) S. DEPARTMENT OF COMME ATENT AND TRADEMARK OFF	RCE (PE	ATTY DOCKET NO. 03500.015727.	APPLICA* 09/941	TION NO. 1,780	
LIST OF	REFERENCES CITED BY APP	LICANT(S)	APPLICANT TAKEO TSUKAMOTO			
	(Use several sheets if necessar	DEC 2 2 ZUUS	B 발LING DATE FAUGUST 30, 2001		GROUP 2821	
		DATE	S. PATENT DOCUMENTS			
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,087,765	07/11/00	Coll et al.	313	309	
	5,872,422	02/16/99	Xu et al.	313	311	
	2002/0009637	01/24/02	Murakami et al.	429	213	
						e e
			FOREIGN PATENT DOCUMENTS			
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
	WO 01/93292	12/06/01	РСТ			
		OTHER DOCUMENT	(S) (Including Author, Title, Date, Pertinent Pages, Etc.)	l		
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		<u> </u>	190			
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EXAMINER			DATE CONSIDERED			

Sheet 1 of 1

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



	Mail Stop 00 P.O. Box 1450 P.O. Box 1450 Date 7 120 2003 P.O. Box 1450 P.O. Box 1450
	P.O. Box 1450 Alexandria, VA 22313-1450 Alexandria, VA 22313-1450 Atty. Docket Og (941, 780)
FCHS-D-00	Sir: Kindly acknowledge receipt of the accompanying: Response to Official Action. Check for \$